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(54) NEW PROTEIN PHBP-70

(57) Abstract:

PURPOSE: To obtain a new protein plasma heparin binding protein 70 (PHBP-70), available from blood of a fetus and a neonate of mammals including humans, having a specific molecular weight and a specified amino acid, capable of manifesting growth promoting activities for fibroblasts and useful as a therapeutic agent, etc., for wounds.

CONSTITUTION: This new protein PHBP-70 is obtained from blood of a fetus and a neonate of mammals including humans and has about 60-80 kDa molecular weight measured by the sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) under reducing conditions and an amino-terminal sequence having an amino acid sequence expressed by the for-

mula. Furthermore, the protein is capable of manifesting growth promoting activities for fibroblasts and useful as a therapeutic agent, etc., for wounds. This protein is prepared by adding an anticoagulant to a bovine blood plasma, adding 1M barium chloride thereto, centrifuging the resultant mixture, collecting the produced white precipitate, dissolving the precipitate in a phosphoric acid buffer solution, treating the obtained solution with an anion exchanger, adsorbing and removing a vitamin K-dependent protein, treating a fraction without being adsorbed with a column immobilizing a heparin, a gel filtration column and an anion exchange column and purifying the resultant eluate according to the reversed phase liquid chromatography.

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Ser Met Ser Pro Gln Ala Gln Ala Gly Leu Glu Thr Leu Leu Thr Pro Met  
1 5 10 15